

WHAT IS CLAIMED IS:

1. A camshaft thrust cam cap assembly for an engine including a camshaft spaced from a crankshaft, wherein a thrust bearing cap is disposed on said crankshaft, said assembly comprising at least one thrust cam cap disposed on said camshaft and being
5 positioned relative to said thrust bearing cap such that said thrust cam cap falls within an angle of about $\pm 5^\circ$ with respect to an axis having an origin at said thrust bearing cap and extending perpendicularly with respect to said camshaft.

2. The assembly as defined in claim 1, wherein said thrust bearing cap is installed between a second cylinder and a third cylinder underneath a cylinder block of an engine
10 having inline four-cylinders and sixteen-valves; and said thrust cam cap is installed between cams for second cylinder.

3. The assembly as defined in claim 1, wherein said thrust bearing cap is installed between said second cylinder and said third cylinder underneath said cylinder block in an engine having inline four-cylinders and sixteen-valves; and said thrust cam cap is
15 installed between cams for third cylinder.

4. The assembly of claim 1, wherein:

said thrust cam cap is mounted over a bearing surface configured to carry the camshaft; and

said thrust cam cap forms a bearing part that protrudes with respect to a width
20 of the bearing surface to support longitudinal movement of the camshaft at a lateral side of said thrust cam cap.

5. A camshaft thrust cam cap, comprising:

a body member having two sides defining a width there between and defining a concave opening along one edge extending between said sides for receiving a camshaft therein;

a bearing part disposed along a periphery of said concave opening on at least
5 one side of said body part and protruding from said side.

6. The camshaft thrust cap of claim 5, wherein said body member defines holes at opposite ends of the body member running between said sides for securing the body member to a cylinder head.